

CONTRACT FILE

MICRODENSITOMETER TRAINING PROGRAM

10 April 1964

Declass Review by NGA.

PROJECT AUTHORIZATION REQUEST

PAR 225

10 Apr 64

SUBJECT: Microdensitometer Training Program

TASK/PROBLEM

1. Prepare and conduct training programs in the fundamentals of operation and the application of microdensitometers for photo interpretation.

PROPOSAL

2. It is proposed to prepare training programs and conduct training of personnel selected by the customer as follows:

a. Limited Training: Limited training will be conducted in four groups of four or five personnel for periods of three to four days at the contractor's facility. Dates of each training period to be mutually agreed upon by the customer and the contractor at least seven (7) working days prior to the start of each training period. Recommended program course is:

(1) First Phase - Discussion in Fundamentals:

(a) Microdensitometer theory and applications in photography.

(b) Microdensitometer design, detailing the mechanical, electrical, and optical requirements.

(c) Survey of the applications of microdensitometers in photographic research and development to include:

- (1) Density measurements
- (2) Distance measurements
- (3) Image structure measurements (i.e., resolving power, granularity, and modulation transfer.)
- (4) Miscellaneous measurements, such as edge tracing, banding, etc.

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(2) Second Phase - Detailed Instruction in the Operation of a Typical Microdensitometer

(a) Preparation of instrument, discussing the function and setting of each control (e.g., slit adjustment, focus, table drive mechanism, and recorder).

(b) Preparation of photographic sample.

(c) Calibration of recording and analysis of results.

(3) Third Phase - Continued Instruction and Experience in the Operation of a Typical Microdensitometer

(a) Trainees will operate microdensitometers with a variety of samples.

(b) Other microdensitometers, in use will be demonstrated as time will permit.

The microdensitometer to be used in training will be the Microdensitometer (Model 5)* which is a general purpose instrument, similar in function to many microdensitometers currently available. STAT

b. Additional Training: It is recommended that training required in addition to the program outlined above and directed toward any particular photo interpretation application be conducted at the customer's facility on present equipment as required. Training requirements, date and duration for each additional training program to be agreed upon by the customer and the contractor thirty days prior to the start of the training period.

* This instrument is located in a classified area (black); only personnel who have appropriate clearance will be allowed in this area.

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PROGRAM OBJECTIVE

4. Program objectives are:

- a. Prepare limited microdensitometer training program.
- b. Conduct limited training when requested by customer (See Para. 2a)
- c. Conduct additional training when requested by the customer in accordance with Paragraph 2b.

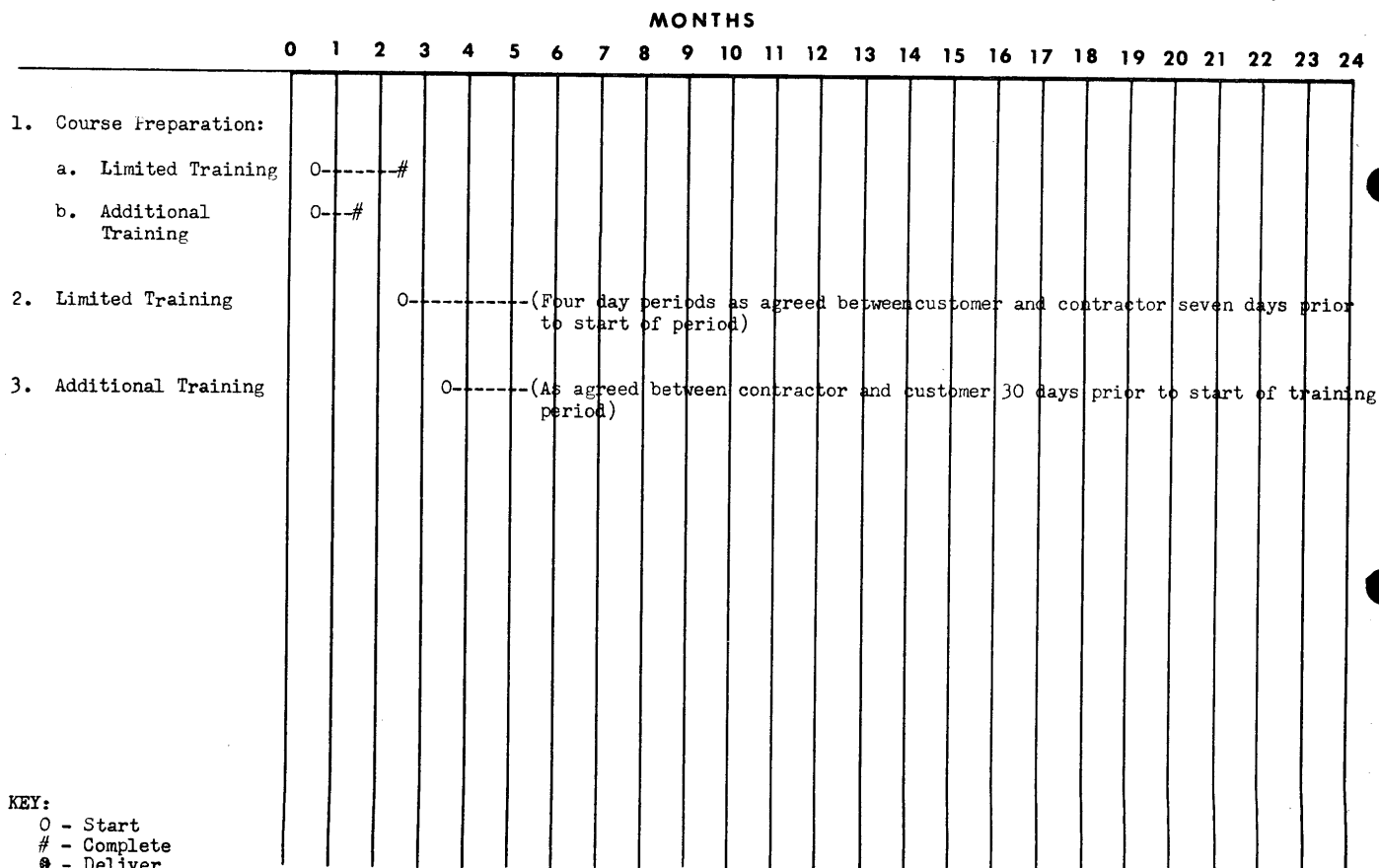
SCHEDULE

5. Tentative schedule covering limited and additional training preparation is shown in Fig. 1. It should be noted that no attempt has been made to establish a schedule for each training period since these must be agreed to by the customer and the contractor.

TENTATIVE SCHEDULE

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KEY:
O - Start
- Complete
● - Deliver

Fig. 1